

CLAIMS

1. An optical communication system comprising:
 - one or more optical radiation transmitters;
 - 5 - a means of coupling optical radiation from the, or each, optical radiation transmitter into a multimode fibre using a launch which restricts the number of modes excited in the fibre; and
 - a photodetector;

characterised by the feature that the, or each, optical radiation transmitter is a

10 single transverse mode laser transmitter and that the transmission signals used are radio frequency signals.
2. An optical communication system according to Claim 1 where the means of coupling light into the fibre produces a launch which is co-linear but at an offset to
- 15 the fibre axis.
3. An optical communication system according to claim 2 where the fibre has a core diameter of 62.5µm and where the offset distance measured from the centre of the multimode fibre core to the centre of the optical radiation emitted from the
- 20 transmitter is from approximately 10 µm to approximately 30 µm.
4. An optical communication system according to Claim 3 where the offset distance measured from the centre of the multimode fibre core to the centre of the optical radiation emitted from the transmitter is from approximately 23µm to
- 25 approximately 30µm.
5. An optical communication system as substantially described with reference to and as illustrated in any appropriate combination of the accompanying text and drawings.